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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,658	06/12/2007	Jari Vikberg	4144-7	9241

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NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

EXAMINER	
SARWAR, BABAR	
ART UNIT	PAPER NUMBER
2617	
MAIL DATE	DELIVERY MODE
02/19/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/588,658	VIKBERG ET AL.	
	Examiner	Art Unit	
	BABAR SARWAR	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *03* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *12 June 2007*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-17* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-17* is/are rejected.

7)☒ Claim(s) *1, 8, 15* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *07 August 2006* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. **Claims 1, 8, 15** are objected to for the following informalities:

Claims 1 and 8 recite "Unlicensed radio interface **(31)**". The aforementioned reference number i.e. **(31)** is incorrect.

Appropriate correction is required.

Claim 15 recites "base station **(10)**. The aforementioned reference number i.e. **(10)** is incorrect. It also recites "core network portion **(10)**" which appears to be inappropriate. Last line mentions "in response to said received". There appears to be missing words following the term "received".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furtenback et al. (EP 1351530 A1) in view of Monin et al. (US 2002/0197984 A1), hereinafter referenced as Furten and Monin.

Consider **claim 1**, Furten teaches an access network adapted to communicate with a mobile terminal **(Abstract, Fig. 1 element 106 and 1)** and a core network portion **(Fig. 1 element 20)** of a mobile telecommunications network, said access network

comprising: a plurality of local base stations **(Fig. 1 element 104 HBS)** each defining a mini-cell and adapted to communicate with mobile terminals **(HBS' cell coverage)** located in a respective mini-cell over an unlicensed-radio interface (**Fig. 1 element 11**); an access network controller (**Fig. 1 element 105 HBSC**) adapted to communicate with said core network portion over a predetermined licensed mobile network interface **(Fig. 1 elements A and Gb)** and connected to said plurality of local base stations. Furten further discloses that said access network controller is adapted to receive a handover request containing a common identifier from said core network, to respond to said handover request by assigning a handover reference to said request and to setup a communication path between a mobile station and said core network when a message containing said handover reference is received from said mobile station **(Abstract, Para 0006-0009, 0013-0020, 0025-0031, and Para 40, Figs. 1, 5, 6, 8).** Furten does not specifically disclose that all said mini-cells are assigned a common identifier associated with said access network controller. Monin teaches that all said mini-cells are assigned a common identifier associated with said access network controller **(Para 0038, 0066-0070, Figs. 1, 2, and 7, where Monin discloses plurality of access points i.e. mini-cells using common identities).**

Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify Furten by specifically providing that all said mini-cells are assigned a common identifier associated with said access network controller, as taught by Monin, for the purpose of enhancing the flexibility of use of access points in a wireless local area network (WLAN) as discussed in **Para 0016**.

Consider **claim 2**, the combination teaches everything claimed as implemented above (see claim 1). Monin specifically discloses that said local base stations are adapted to communicate said common identifier to said mobile terminal **(Para 0003-0027, 0037-0059, 0066-0074, and 0081, Figs. 1, 2, and 7).** Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify Furten by specifically providing that said local base stations are adapted to communicate said common identifier to said mobile terminal, as taught by Monin, for the purpose of enhancing the flexibility of use of access points in a wireless local area network (WLAN) as discussed in **Para 0016**.

Consider **claim 3**, the combination teaches everything claimed as implemented above (see claim 1). Monin specifically discloses that said common identifier identifies a single cell address **(Para 0003-0027, 0037-0059, 0066-0074, and 0081, Figs. 1, 2, and 7, where Monin discloses AP's using common identities).** Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify Furten by specifically providing that said local base stations are adapted to communicate said common identifier to said mobile terminal, as taught by Monin, for the purpose of enhancing the flexibility of use of access points in a wireless local area network (WLAN) as discussed in **Para 0016**.

Consider **claim 4**, the combination teaches everything claimed as implemented above (see claim 1). Monin specifically discloses that said common identifier identifies a channel frequency utilized by said local base stations **(Para 0003-0027, 0037-0059, 0066-0074, and 0081, Figs. 1, 2, and 7, where Monin discloses AP's using**

common identities). Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify Furten by specifically providing that said local base stations are adapted to communicate said common identifier to said mobile terminal, as taught by Monin, for the purpose of enhancing the flexibility of use of access points in a wireless local area network (WLAN) as discussed in **Para 0016**.

Consider **claim 5**, the combination teaches everything claimed as implemented above (see claim 1). Monin specifically discloses that said common identifier identifies a base station address common to all local base stations **(Para 0003-0027, 0037-0059, 0066-0074, and 0081, Figs. 1, 2, and 7, where Monin discloses AP's using common identities).** Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify Furten by specifically providing that said local base stations are adapted to communicate said common identifier to said mobile terminal, as taught by Monin, for the purpose of enhancing the flexibility of use of access points in a wireless local area network (WLAN) as discussed in **Para 0016**.

Consider **claim 6**, the combination teaches everything claimed as implemented above (see claim 1). Monin specifically discloses that said common identifier is known to said core network **(Para 0003-0027, 0037-0059, 0066-0074, and 0081, Figs. 1, 2, and 7, where Monin discloses the central network control unit being able to assign different logical identities to various AP's).** Therefore, it would have been obvious to one of ordinary skills in the art at the time the invention was made to modify Furten by specifically providing that said local base stations are adapted to communicate said common identifier to said mobile terminal, as taught by Monin, for the

purpose of enhancing the flexibility of use of access points in a wireless local area network (WLAN) as discussed in **Para 0016**..

Consider **claim 7**, the combination teaches everything claimed as implemented above (see claim 1). Furten specifically discloses that the access network is further characterized by a fixed broadband network connecting said plurality of local base stations with said access network controller **(Fig. 1)**.

Claim 8, as analyzed with respect to the limitations as discussed in claim 1.

Claim 9, as analyzed with respect to the limitations as discussed in claim 2.

Claim 10, as analyzed with respect to the limitations as discussed in claim 3.

Claim 11, as analyzed with respect to the limitations as discussed in claim 4.

Claim 12, as analyzed with respect to the limitations as discussed in claim 5.

Claim 13, as analyzed with respect to the limitations as discussed in claim 6.

Claim 14, as analyzed with respect to the limitations as discussed in claim 7.

Claim 15, as analyzed with respect to the limitations as discussed in claim 1.

Consider **claim 16**, the combination teaches everything claimed as implemented above (see claim 15). Furten specifically discloses that said base station of said public licensed mobile network receiving said common identifier from said mobile station, identifying said access network controller using said common identifier and generating a handover request message addressed to said access network controller via said switching control part **(Para 0040, Fig. 8)**.

Consider **claim 17**, the combination teaches everything claimed as implemented above (see claim 15). Furten specifically discloses that said mobile station upon receipt

of said common identifier transmitting a report to said base station adapted to trigger handover irrespective of other frequencies received by said mobile station **(Para 0028)**.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BABAR SARWAR whose telephone number is (571)270-5584. The examiner can normally be reached on MONDAY TO FRIDAY 09:30 A.M -05:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NICK CORSARO can be reached on (571)272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BS/

/BABAR SARWAR/
Examiner, Art Unit 2617

/NICK CORSARO/
Supervisory Patent Examiner, Art Unit 2617